

SteVe Adams Product Manager



Division of Garner Industries 4200 North 48th St. / Lincoln, NE 68504-1498 (402) 434-9102 / FAX (402) 434-9133

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Friday, March 08, 1996

Mr. Frank Costanzo JP Donmeyer PO Box 74 Ono, PA 17077

Dear Frank:

It was a pleasure visiting with you yesterday and discussing your unique application. As requested, I have included a partial users list of the Smart Bob System. Once again, these are being operated from same location, however, the only difference would be utilizing a computer modem for separate locations.

Also, as promised I have enclosed four tickets to the upcoming Powder and Bulk Solids Show in Chicago. This show is streamlined for the dry processing industry highlighting every form of equipment available for improved processing.

I look forward to discussing your application further with possible demonstration once your buying intention is nearer. Should you have additional questions, please contact me at 800-278-4241. Thank you for your interest.

Sincerely,

Steve Adams
Product Manager



Directory

Steve Adams BinMaster Level Controls 4200 North 48th Street Lincoln, Nebraska 68504 Page: 1
Report Date: 3/8/96
Time: 9:06AM
Number of Contacts: 7

<u>Primary</u>			Secondary
Associated Feeds & Supp Jon Lundskoog Fax: 5213 W. Main	oly Ext:	CC:1	Assistant:
Turlock CA 95381			
Calva Products Phil Williams Fax: 4351 Wiwery Road	Ext:	CC:1	Assistant:
Acampo CA 95220			
General Mills Bob Calton Fax:	Ext:	CC:1	Assistant:
Griffin Industries Rob Warren Fax: County Road 400 West	Ext:	CC:1	Assistant:
Newburry IN 47449			



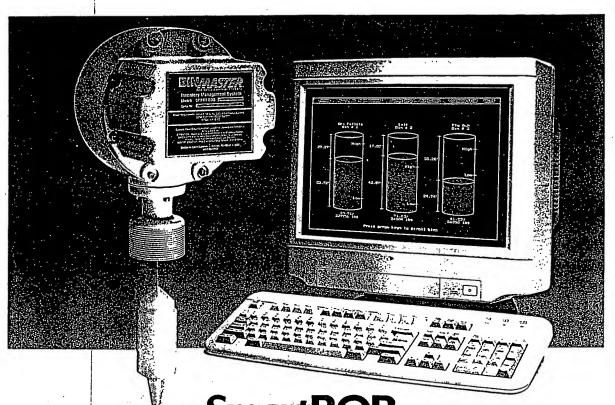
Directory

Steve Adams
BinMaster Level Controls
4200 North 48th Street

Page: 2 Report Date: 3/8/96 Time: 9:06AM

Lincoln,	icoln, Nebraska 68504			Number of Contacts: 7	
Primary		•		Secondary	
Rob Pos Fax:	ountain Corp. t mfield Ave.	Ext:	CC:1	Assistant:	
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Plymout MA 02360	` . h 				
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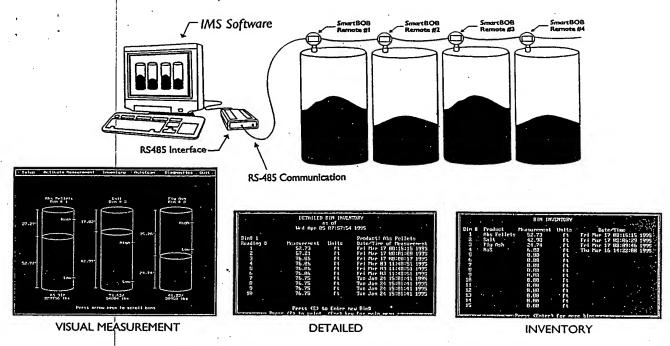
SmartBOBINVENTORY MANAGEMENT SYSTEM

NEW DESIGN PRODUCES ADVANCED, AFFORDABLE LEVEL CONTROL

SmartBob IMS is an on-demand level measurement system for solids and liquids. Using microprocessor based Remote Sensing Units and specially designed PC compatible software, BinMaster is the first to design an affordable inventory management system with sophisticated measurement capabilities.

REMOTE SENSING UNIT - FAST, ACCURATE AND RELIABLE

SmartBob Remote measures material with a high-speed weighted probe that travels at 2.5 feet per second. It provides accurate mechanical measurement to the nearest one-tenth of a foot. The SmartBob Remote may be used to measure a variety of materials - chemicals, plastics, cement, coal, pulp, grain - in open or closed vessels up to 150 feet. It's specially designed for reliable operation in humid, dusty and extreme temperature applications. The rugged industrial enclosure meets Class I and Class II specifications (approvals pending).



IMS SOFTWARE PROVIDES INVENTORY MANAGEMENT CAPABILITIES

SmartBob IMS Software runs on an IBM compatible PC and controls up to 30 Remote Sensing Units from one location. The system uses a RS-485 network which requires less wiring and simplifies installation. With user friendly "pull-down" menus, the software provides a graphic representation of material measurements by distances, weight and percentage in English and in metric units. It also provides inventory history, measurement schedulog and Pigh/low alarms. Plus it can interface with a printer to provide hard copy documents of each function.

SmartBOB SPECIFICATIONS

MAR 1 3 2001

Power Requirements: 16VAC 5	50/60Hz	Mounting: TRADE	MARK 8 NPT floor flange		
	ver Consumption:2VA Continuous 36VA Intermittent		Conduit Entry:		
Current Draw:	Continuous ntermittent	Weight: Diameter:			
Operating Temperature: 32°F to	185°F (0° to 85°C)	Height:	.14"		
Operating Temperature with Heater:40°F to	+185°F (-40°C to +85°C)	Depth:	. 9 1/2"		
Pressure: Atmospl		Air Purge Entry:	. 1/4"-18 NPT		
Measurement Range:		Cable:	.316 Stainless Steel 0.037."-diameter Nylon Coated		
Measurement Rate: 2.5 ft/sec	(typical)	Warranty:			
Measurement Accuracy: 0.1 ft (0. Repeatability:	· ·	OPTIC			
Resolution:	•	Heater:	25W 40°F		
Communication:		Probes:	Spiked, Ploat, or Bottle		
Wiring Distance:	•	Transformer:	.120VAC/16VAC, 150VA 120VAC/16VAC, 250VA		
Enclosure:	iroup C & D Group E, F, & G	Interface Cable:	.RS-485 Communication Cable Beldon #8102		





For more than thirty years, Garner Industries has manufactured the BinMaster product line of level controls.

Today our commitment continues to provide our customers with the finest products and the best service possible.

For further information on BinMaster level control products, and the name of your local distributor, call 1-800-278-4241.





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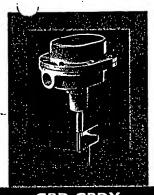
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GR, GRE, GRX

GRD, GRDX

GRII MAXIMA

TILT SWITCH

Reliable point level detection for bulk solids including powder. pellet and granular materials

Use in bins, vessels, chutes and conveyers

Material density from 5 lbs./cu.ft. to over 100 lbs./cu.ft.

Feed, seed, grain, food, sand gravel, concrete, aggregate, plastic, chemical, coal, and other materials

Reliable point level detection for bulk solids including powder, pellet and granular materials

Use in bins, vessels, chutes and conveyers

Material density from 5 lbs./cu. ft. to over 100 lbs./cu. ft.

Feed, seed, grain, food, sand, gravel, concrete, aggregate, plastic, chemical, coal, and other materials Reliable point level detection for bulk solids including powder, pellet and granular materials

Use in bins, vessels, chutes and conveyers

Material density from 5 lbs./cu. ft. to over 100 lbs./cu. ft.

Feed, seed, grain, food, sand, gravel, concrete, aggregate, plastic, chemical, coal, and other materials Reliable high level detection for dense bulk solids

Use in bins, vessels, chutes, silos or over conveyers and open pits where conventional level devises can not be mounted

Material density of 15 lbs./cu. ft. and greater

Grain, sand, gravel, concrete, aggregate, coal, and other materials

Rugged construction and simple, dependable design

De-energizing motor for extended operation life

Three bearing drive shaft assembly reduces wear and increases reliability

Various voltages available

Explosion proof model

Terminal strip for quick easy installation

Interchangeable with other rolary units

Fail-Safe circuitry eliminates spills and process shortages from power lailures

Rugged construction and simple, dependable design

De-energizing motor for extended operation life

Three bearing drive shaft assembly reduces wear and increases reliability

Multiple voltages

Explosion proof model

Interchangeable with other rotary units

Fail-Sale circuitry eliminates spills and process shortages from power failures, motor or gear failures

Visual LED indicates sensor status: uncovered, covered and fault conditions

Normal and fault status contact

De-energizing motor for extended operation life

Three bearing drive shaft assembly reduces wear and increases reliability

Multiple voltages

Interchangeable with other rotary units

Economical high level point detection

Rugged construction and easy installation

Simple design with one moving part-

Switch activated at 15 degrees

Stainless steel paddle options available

Power Requirements: 120/240 VAC

Output Contacts: SPDT 15 Amp 120 VAC

Ambient Operating Temperature: -40°F to +300°F, (-40°C to +149°C)

Pressure: 1/2 micron, 30 PSI

Approvals & Certifications (available): listed for Class I, Groups C & D and Class II Groups E. F & G Hazardous Locations, Enclosure Type 4,5,7,9 & 12

Enclosure: Die cast aluminum

Mounting: 1 1/4" NPT

Shaft and components: 316 SS

Power Requirements: 120/240 VAC; 24/ 12 VDC

Output Relay: DPDT 10 Amp 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 1/2 Micron, 30 PSI

Approvals & Certifications (available): listed for Class I, Groups C & D and Class II Groups E, F, & G Hazardous Locations. Enclosure Type 4X, 5, 7, 9

Enclosure: Die cast aluminum, USDA Approved powder coat finish

Mounting: 1 1/4" NPT

Shaft and components: 316 SS

Power Requirements: 24/120/240 VAC

Output Relay: DPDT 10 Amp 250 VAC; SPDT supervisory 10 Amp 250 VAC normal, fault

Ambient Operating Temperature: Electronics, -40°F to +185°F. (-40°C to +85°C)

Pressure: 1/2 Micron, 30 PSI

Approvals & Certifications (available): listed for Class II, Groups E, F, & G Hazardous Locations. Enclosure Type 4X, 5, 9 & 12

Enclosure: Die cast aluminum, USDA Approved powder coat linish

Mounting: 1 1/4" NPT

Shaft and components: 316 SS

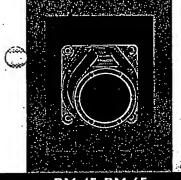
Switch Ratings: 15 Amps @125, 250 or 480 VAC, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 1/2 A @ 125 VDC, 1/4 A @ 250 VDC

Operating Temperature: -40°F to +300°F, (-40°C to +149°C)

Housing: Die cast aluminum

Mounting: Suspended by flexible hanger

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BM-45, BM-65

Reliable point level detection for free flowing dry materials

Use in bins, vessels, and some plugged chute applications

Material density from 20 lbs./cu. ft. to 60 lbs./cu. ft.

Feed, seed, grain, food, rubber, plastics, light powders, granules and other materials

Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyers

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials Point level detection and process control for solid, liquid and slurry materials

Use in bins, vessels, tanks, chutes and conveyers where explosion rated sensor is necessary

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials

Point level detection and process control for solid, liquid and slurry

Use in bins, vessels, tanks, chutes and conveyers where flush mount sensor is necessary

materials

Material density over 10 lbs./cu. ft.

Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharmaceuticals, feed/grain and many more materials

Rugged construction and simple design, very economical point level detection

Neoprene or silicone diaphragm material, variable sensitivity

Internal or external mount

Multiple voltages

Explosion proof

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Safe, switch selectable high/low

Adjustable time delay to 10 seconds

Optional sensing probes: coaled, food grade, flush mount, solid and flexible extension

Visual LED indicates sensor status: uncovered, covered, and power failure

"Quick-Set" simple calibration, adjustable 1-10 Picofarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Sale, switch selectable high/low

Adjustable time delay to 10 seconds

Optional sensing probes: coated, flush mount flexible extension

Internal LED Indicates material in contact with probe

"Quick-Set" simple calibration, adjustable 1-10 Picolarads

PRO-Shield compensates for material build-up on probe, sticky and corrosive applications

Fail-Sale, switch selectable high/low Adjustable time delay to 10 seconds

Optional sensing probes: coated, food grade, flush mount, solid and flexible extension

Internal LED indicates material in contact with probe

Switch Ratings: 15 Amps @125, 250 or 480 VAC, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 1/2 A @ 125 VDC, 1/4 A @ 250 VDC

Operating Temperature: -40°F to +300°F, (-40°C to +149°C)

Approvals & Certifications (available): listed for Class II, Groups E, F, & G

Housing Enclosure: Die cast

Mounting: Internal or External, 16 ga. galvanized mounting plate

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available): Enclosure Type 4X, 5, & 12

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250 VAC

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available): Enclosure Type 4X, 5, 7, 9 & 12; Explosion Proof for Class I Group C & D; Class II E. F. & G

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and USDA approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

Power Requirements: 120/240 VAC, 50/60 Hz ±15%

Output Relay: DP/DT 10 Amp at 250

Ambient Operating Temperature: Electronics, -40°F to +185°F, (-40°C to +85°C)

Pressure: 500 PSI

Approvals & Certifications (available Enclosure Type 4X, 5, & 12

Housing Enclosure: Cast aluminum enclosure with bolt-on cover and US approved finish

Mounting: 1 1/4" NPT Standard; 3/4" NPT 316 SS Optional

lowability of finely-ground dry bulk Flour, seeds, grain, flakes, sawdust, special design provides two action Simple to install in any type vessel typsum, sugar and other materials indoor and outdoor applications in Use in high temperature, corrosive cement, PVC resin, fly ash, carbon Requires fewer pads than diffuser type because of unique design Jiminate packing and maintain low aid through aeration and WILL STATE black, lime, sand, cornstarct Not affected by moisture or Jses high or low pressure bins, and storage vessels Self-cleaning emperature applications naterials surements and inventory history by distance, weight, and percentage in English and metric Continuous "on-demand" level measurement and Inventory Management System (IMS) for figh speed, accurate measurement without cessor based, electro-mechanical level meaprovides graphical display of material mea-Rugged mechanical construction; optional controls up to 30 remote sensing units and solid, liquid and sturry materials. Micropro-RS 485 Protocol available for direct PLC Advanced design with built-in measure-Plastics, chemicals, coal, concrete, food BM compatible, PC based IMS software ingredients, pharmaceuticals, feed/grain, calibration, mylon coated stainless steel ment reliability for one or many vessels SMATCHESOLFILMS units. Wiring distance up to 4,000 ft. aggregates and many more materials Explosion-proof rating surement device sensing probes integration ressels, and tanks measuring up to 150' ingredients, pharmaceuticals, feed/grain, Plastics, chemicals, coal, concrete, food Indoor and outdoor applications in bins, Material density over 5 lbs./cu. ft., not mechanically controlled sensing probe operation of remote sensors without aggregates and many more materials accurate measurement without surement for solid, liquid and slurry remote sensors, programmable bin Continuous "on-demand" level mea Console option, monitor up to 12 Rugged mechanical construction; materials. Operates using electro-Simple operation with advanced PLC interface option for direct HINEOE optional sensing probes affected by dust or vapor height, LED readout digital circuitry console PRO-Shield compensates for material build-up on probe, sticky and corrosive Optional sensing probes: coated, flush may be located up to 75' from sensing high vibration conditions; electronics and conveyers with high temperature/ Fail-Safe, switch selectable high/low Adjustable time delay to 10 seconds ceuticals, feed/grain and many more Plastics, chemicals, coal/fly ash, concrete, food ingredients, pharma-Material density over 10 lbs /cu. ft. Use in bins, vessels, tanks, chutes Point level detection and process control for solid, liquid and slurry Internal LED indicates material in *Ouick-Set* simple calibration adjustable 1-10 Picofarads contact with probe applications naterials **Mount**

Enclosure Type 4X, 5, 7, 9, 12, Explosion Proof Class I Group C & D, Class II Group E, F, & G Ambient Operating Temperature Electronics with Heater: -40°F to +185°F, Power Requirements: 16 VAC 50/60 Hz Approvals & Certifications (available): Measurement Rate: 2.5' per second Enclosure: Die cast aluminum Measurement Range: 150° Mounting: 3"- 8 NPT (-40°C to +85°C) Accuracy: 0.25% Power Requirements: 120 VAC, 50/60 Hz Electronics, -40°F to +185°F, (-40°C to +85°C), Optional heater for below -30°F Enclosure: Cast aluminum frame and Mounting: 3" NPT stand pipe and aluminum flange Measurement Rate: 1' per second weather tight polyethylene cover Ambient Operating Temperature: Measurement Range: 150' Resolution: 1 ft.

enclosure with bolt-on cover and USDA

approved finish

Mounting: 1 1/4" NPT Standard;

3/4" NPT 316 SS Optional

Housing Enclosure: Cast aluminum

ntrinsically safe, Enclosure Type 4X, 5,

-8 12

Approvals & Certifications (available):

Output Relay: DP/DT 10 Amp at 250 VAC

Status Contacts: 3 Amps 240 VAC

Ambient Operating Temperature:

Electronics, -40°F to +185°F,

(-40°C to +85°C)

Pressure: 500 PSI

Ower Requirements: 120/240 VAC,

50/60 Hz ±15%

Remote Probe status contacts

vot anexacu or moisture or emperature Self-cleaning
Simple to install in any type vessel
Suitable for abrasive material
Construction
Stainless Steel Center Shaft
Rated to 250°F (121°C)
Air pressure from 5 PSIG to 60 PSIG
Food grade material available

Order Information

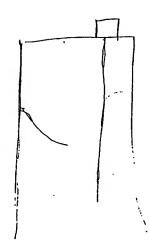
To place an order or for technical assistance, please call 1-402-434-9102 Or 1-800-278-4241

Or FAX 1-402-434-9133 BinMaster products are sold worldwide through our stocking distributor network.

Call us today for the name of your BinMaster distributor.

BING CONTROL EXPENSI

THE LEVEL CONTROL EXTROL DIVISION OF GARMET AZOON A 8TH STREET LINCOLN NE 68504-9940



BINASTER. THE LEVEL CONTROL EXPERTS

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